

# PERFORMANCE GUIDE

## Represents Typical Values Only

www.Mactac.com

### LTCRRF02

Revised: 03/2021

### 3.9 mil Retro-Reflective Film Labelstock

Description	Applications and End Uses		
<b>Product</b>	LTCRRF02 - 3.9 mil polyester based retro-reflective film with an aggressive acrylic adhesive and a 50# white glassine liner.		
	Designed for use in warehouse rack and pallets labels that can be scanned from a distance. And aggressive adhesive gives an ability to stick permanently of rough surface.		
<b>Face</b>	3.9 mil retro-reflective polyester film embedded with glass beads that gives the film a light silver appearance. Top coated for enhanced printability with flexography and thermal transfer. Print test product and consult with your ink supplier to confirm suitability for your application.		
	<b>Physical Properties Without Adhesive</b>		
	Caliper, inches	0.0039 (3.9 mils)	ASTM D-2103
<b>Adhesive</b>	PAT1 is a high performance, permanent acrylic with excellent ultimate adhesion and mandrel hold. It is extremely chemical and solvent resistant and has very good adhesion to various high and low energy substrates.		
	<b>Physical Properties of Adhesive</b>		
	Thickness, inches	0.0011 +/- 10%	
	Peel Adhesion, lbs./in.	Stainless Steel: 2.9	CTM-8 (30 min. applied) Reference: PSTC-101A
	<i>Temperature Ranges</i>		
	Minimum Application	+39°F (+4°C)	CTM #45 Curwood Polyester Film Dry Surface
	Service Ranges	-40°F to +176°F (-40°C to +80°C)	
<b>Liner</b>	A 50# white glassine liner. Excellent for die cutting and stripping. The liner is coated with a release system designed for label dispensing. Primarily for roll-to-roll applications where a more demanding liner is needed.		
	Caliper, inches	0.003+/- 10%	TAPPI T-411
	Basis Weight, lbs. (24" x 36"/500 sheets)	50 +/- 10%	TAPPI T-410
<b>Shelf Life</b>	Product retains its performance and properties for one year from date of manufacture when stored at 72° F and 50% relative humidity.		

This product complies with CONEG regulations.

All MACTac Roll Label products meet the requirements of the Clean Air Act of 1990.

**\* NOTE: Thermal transfer printing quality and bar code scannability are dependent upon the interworking of several elements; the ribbon, the printhead and the facstock. Please test all applications. Consult Mactac's Technical Marketing Department for guidelines regarding printer and ribbon compatibility.**

**CALL 1-800-548-3456 for additional product information**

**IMPORTANT NOTICE:** The information given, and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement, or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

<sup>TM</sup> Trademark of Morgan Adhesives Company.

\* Registered Trademark of Morgan Adhesives Company.

Tide Registered Trademark of the Procter & Gamble Company

409<sup>®</sup> Registered Trademark of the Clorox Company

